

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1-8. (Cancelled)

9. (Currently Amended): A composite material, comprising:

a biodegradable polymeric material, and

calcium phosphate in the biodegradable polymeric material,

wherein the calcium phosphate is contained in the biodegradable polymeric material in a gradient of calcium phosphate that varies in the biodegradable polymeric material from a first side of said biodegradable polymeric material to a second side of said biodegradable polymeric material with an increasing linear gradient,

wherein the biodegradable polymeric material is selected from the group consisting of glycosaminoglycan, collagen, and a composite of glycosaminoglycan and collagen, and

wherein said gradient of calcium phosphate is formed by alternately soaking the second side ~~[[one]]~~ side of the biodegradable polymeric material in a calcium ion-containing solution and the second ~~[[same]]~~ side of the biodegradable polymeric material in a phosphate ion-containing solution.

10. (Previously Presented): The composite material according to claim 9, wherein the biodegradable polymeric material is a crosslinked product of glycosaminoglycan and collagen.

11. (Currently Amended): A scaffold for cell differentiation and proliferation, comprising:
the composite material according to claim 9, and
one or more components selected from the group consisting of basic fibroblast growth factors (bFGF), vascular endothelial growth factors (VEGF), bone morphogenetic factors (BMP), and inorganic salts comprising calcium salt.

12-13. (Cancelled)

14. (Previously presented): The scaffold according to claim 11, which further comprises cells.

15. (Currently Amended): A method for producing the composite material-according to claim 9, comprising the step(s) of:

providing the biodegradable polymeric material selected from the group consisting of glycosaminoglycan, collagen, and a composite of glycosaminoglycan and collagen, and [[by]]

alternately soaking [[one]] the second side of the biodegradable polymeric material in a calcium ion-containing solution and the second [[same]] side of the biodegradable polymeric material in a phosphate ion-containing solution.

16. (Previously Presented): The scaffold according to claim 11, wherein the scaffold is porous.

17. (Currently Amended): A scaffold for cell differentiation and proliferation, comprising:

the composite material ~~The scaffold~~ according to claim 9,

wherein the ~~composition~~ gradient of calcium phosphate is a constant gradient.